MEGA'GEN
For Lifetime Smiles

# ANYRIDGE®
by MEGA'GEN

## Key Advantages

Excellent initial stability even at the compromised bone density

No screw loosening guaranteed!

Unique and valuable ISQ pattern; essential for predictable immediate or early loading.

## What is the AnyRidge way?

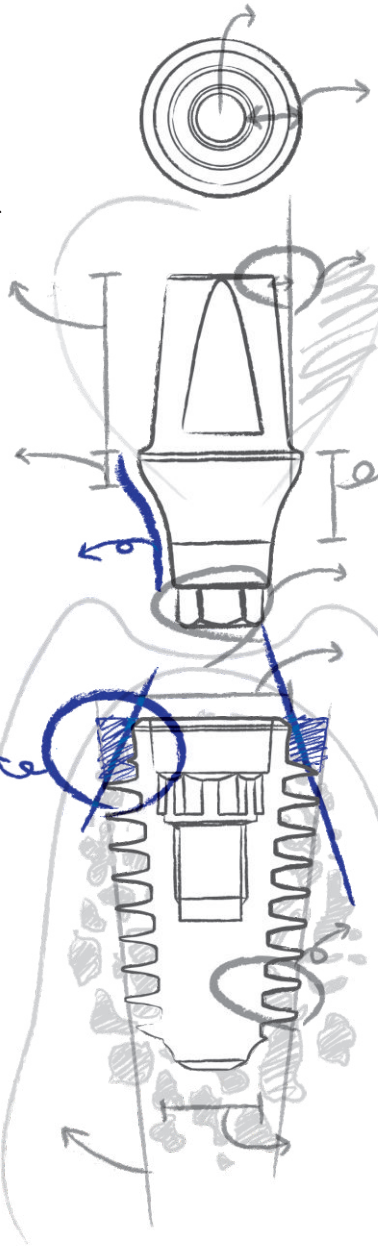
**For clinicians…**
less invasive, fast, simple, predictable, & esthetically superior implant treatment

Realising the
**ONE-DAY Implant™**

**For patients…**
strong new esthetic & functional teeth via painless & rapid treatment

# Characteristics & Advantages

## I. Design Concept



### Small but Strong Abutment Screw
Diameter 1.8mm

### Thicker abutment wall
More favorable for path adjustment

### Various post height
4.0, 5.5, 7.0, 9.0mm

### Optimum post taper
- ✓ Different taper according to post diameter (8°, 10°, 12°, 14°)
- ✓ Wider diameter has more taper!

### Flexibility of 1mm
1mm trimmable margin gives restorative flexibility without changing B-L dimension

### Various cuff height
2.0, 3.0, 4.0, 5.0mm

### Biologic S-line
Biologic S-line provides seamless natural-looking emergence profile

### Single connection
Abutment can be used on any size of fixture

### Wider fixture in a narrow crest
Maximizes long-term survival of a fixture

### Maximum preservation of cortical bone
Important for esthetics and long-term prognosis

### No cutting edge, but strong self-threading
- ✓ Sharp cutting flutes slice and widen bone gradually.
- ✓ No wobbling on cortical slope in anterior immediate placement case.

### Knife-Threads
Offer progressive bone condensing, ridge expansion, maximized compressive force resistance, and minimized shear force production.

### Taper design
Easy to place always guarantees excellent initial stability

### Narrow diameter
Wider fixture into a small osteotomy socket (less invasive surgery) is important to preserve marginal hard and soft tissues.

# II. Surgery

Excellent initial stability, even at compromised bone density.
AnyRidge® Fixture cuts bone smoothly and condenses it simultaneously.

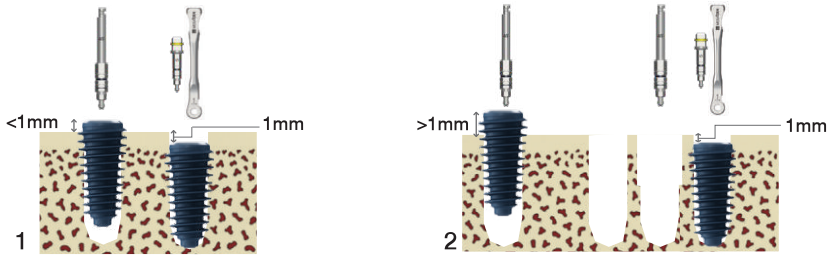
## 1. Fixture placement

- **Soft bone**

The super self-tapping threads have a single core diameter that facilitates minimal site preparation by utilizing a smaller osteotomy to place a wider fixture with special threads.

- **Hard bone**

AnyRidge® Fixture with its super self-tapping thread design is easier than other traditional implants at hard bone.
**Caution! : The osteotomy socket (drilling) size should almost reach the size of fixture to avoid getting stuck in the bone during placement.*




**Easy way to avoid stuck in the bone during AnyRidge implant placement**

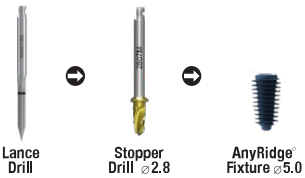
1. Due to extremely strong initial stability of AnyRidge fixture, it can be stuck in the middle during placement especially in mandibular hard bone. Please consider 'One millimeter Rule' to avoid this in the best and easiest way. Clinician can customize the drilling sequence once he fully understand the concept and characteristics of AnyRidge system to get preferred initial stability. 'One millimeter Rule' is simple; if an implant engine (40Ncm) stops leaving one millimeter above the crest, use ratchet wrench to screw it down to preferred position. We recommended to place implant platform 0.5~1.0mm under the crest.

2. If a fixture stucks in the middle leaving more than 1mm above the crest in hard mandibular bone, it is recommended to remove it using a wrench rather than trying to screw it down with excessive torque. Please use a cortical bone drill that is included in a surgical kit, the depth of cortical bone drilling can be adjusted according to the bone condition. Then, place the same fixture into the osteotomy socket.

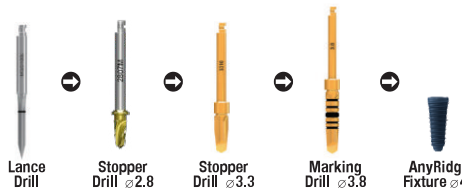
## 2. Customized drilling Sequence

- **AnyRidge® system has no fixed drilling protocol, just make your own protocol based on patient's bone quality to attain preferred initial stability or simply drill an osteotomy socket to given conditions and then decide the diameter of a fixture.**

Example 1) Ø5.0mm fixture can be placed 2.9mm osteotomy socket in D4 bone. Excellent initial stability can be attained




Example 2) In hard one, it is highly recommended to make a socket almost same diameter size as a fixture




- **Improved drill design has simplified drilling sequence, you can even harvest autogenous bone using these specially designed drills.**
  (Recommended speed : 50 RPM, 50 Ncm with saline solution irrigation)

- **The best way to get ideal initial stability with AnyRidge system is placing a fixture using a surgical engine, leaving one or two treads above the crest; then use ratchet wrench to place the platform at the desired position.**

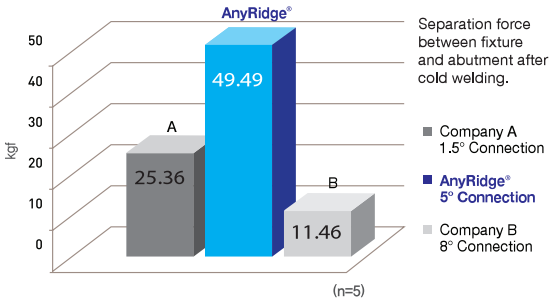
# III. Prosthetics

Better esthetic outcomes from wide variety of prosthetic options!
Stop worrying about screw loosening!

## 1. No screw loosening, less biologic width!

**• Magic Five (5° Internal connection)**

Now you can be free from screw loosening with our unique connection (5 degree morse taper) which gives perfect hermetic sealing. Biologic width is minimized due to no micro gap, and crestal bone health is well maintained.




*Performed Retention Test to evaluate the fixture-abutment retention force using Universal Testing Machine -R&D center in MegaGen Implant Co.,Ltd.(2009)-*

## 2. Biologic S-line

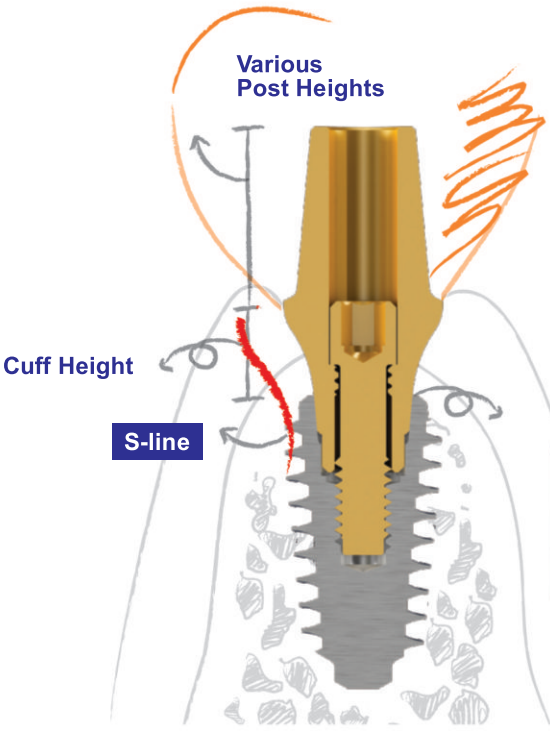
Helps to achieve beautiful, natural-looking esthetics.

## 3. Optimum hex height

Feel AnyRidge connection. It starts with impression taking and lasts until final restoration.

## 4. All indications, various abutment options

Every case, every shape, every size. Everything was considered to satisfy every need.

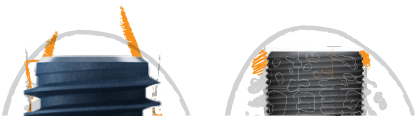



**[SEM Image]** Magic Five Connection : 5° Morse Taper

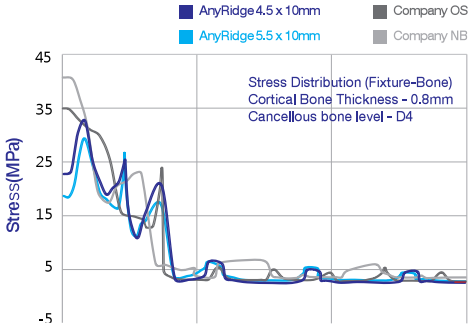
# IV. Maintenance

Unique and sturdy design provides long-term stability!

## 1. Higher cortical bone preservation is guaranteed



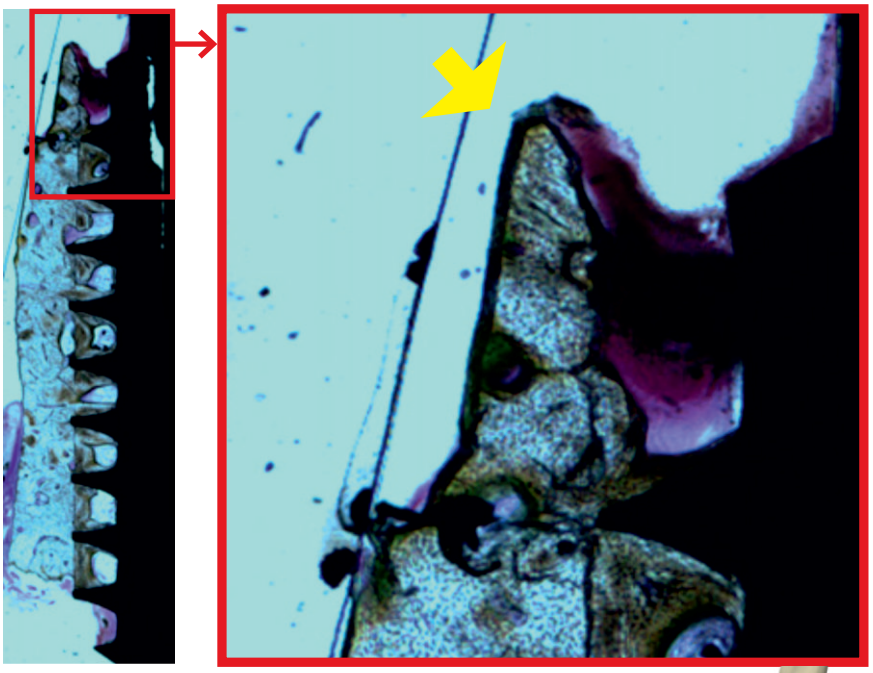
AnyRidge does not depend on cortical bone for initial stability; decreased stress on cortical bone helps to prevent bone resorption after implantation.




*Performed Finite element analysis to evaluate the fixture-bone stress using ABAQUS 6.8 -R&D center in MegaGen Implant Co.,Ltd.(2009)-*

- **More cortical bone**
  **= More soft tissue volume**
  **= Beautiful gingival line**

  Advanced coronal design allows maximum cortical bone preservation around implants. Beyond osseointegration, AnyRidge can assure beautiful gingival line by preserving and maintaining more cortical bone.

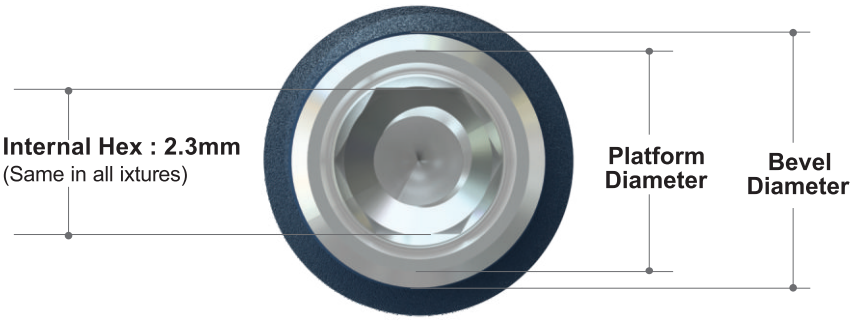


- **A Human Biopsy** (2.5 yrs after placement)

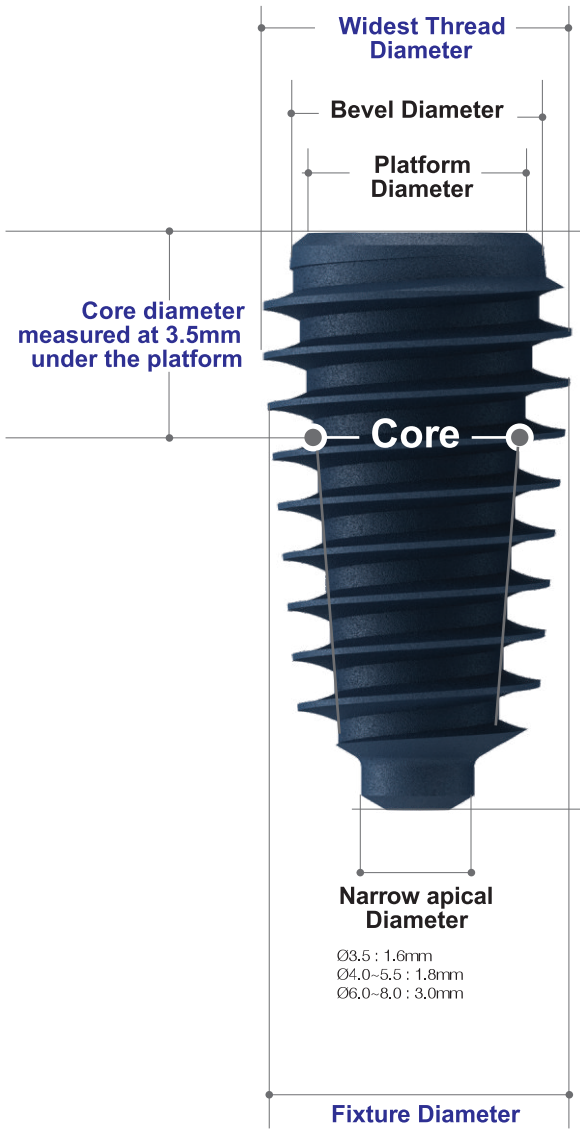
The sharp and high alveolar crest (yellow arrow) could be maintained due to biology driven implant design. With this maintenance of alveolar bone, the peri-implant marginal gingiva showed almost no recession during 2.5 years of follow-up, even in the case of limited ridge width.

# Fixture Product & Packaging

## I. Dimension




| Core (mm) | Platform (mm) | Bevel (mm) |
|---|---|---|
| Ø3.3 | 3.5 | 3.8 |
| | | 4.0 |
| Ø3.8 | 4.0 | 4.5 |
| Ø4.0 | 4.25 | 4.75 |
| Ø4.3 | 4.5 | 5.0 |
| Ø4.8 | 5.0 | 5.5 |




**Widest thread diameter is**
0.5mm wider than fixture size at 3.5mm
0.4mm wider than fixture size at 4.0~8.0mm

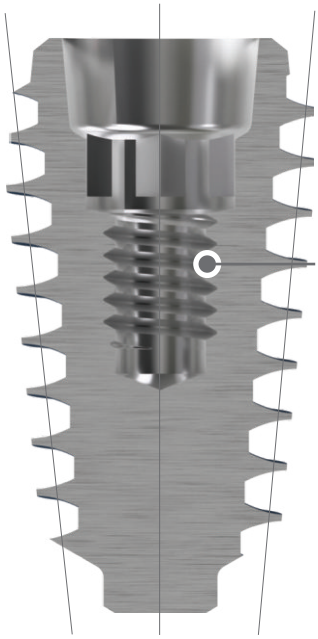
*For example
Ø3.5 = Fixture diameter + 0.5mm
Ø4.0~Ø8.0 = Fixture diameter + 0.4mm

### Length

*Actual length of fixture
Core Ø3.3~4.3 fixture : 0.8mm shorter than the written length
Core Ø4.8 fixture : 0.6mm shorter than the written length

**Important concept!**

It has been proven that 0.5~1.0mm subcrestal placement shows better crestal bone response.
With AnyRigde system, a fixture goes down to the ideal position without further drilling avoiding damage to important anatomic structures.



**Female screw**
1.8mm diameter X
0.35mm pitch

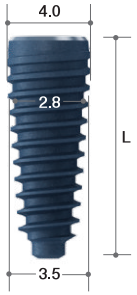
[SEM image]

# II. Fixture Size

## Small Ø3.5

- Cover Screw included.
- Availability of 7mm product is subject to local approval.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 3.5 | 2.8 | 7 | FANIHX3507C |
| | | 8.5 | FANIHX3508C |
| | | 10 | FANIHX3510C |
| | | 11.5 | FANIHX3511C |
| | | 13 | FANIHX3513C |
| | | 15 | FANIHX3515C |




## Regular Ø4.0

- Cover Screw included.
- Availability of 7mm product is subject to local approval.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 4.0 | 3.3 | 7 | FANIHX4007C |
| | | 8.5 | FANIHX4008C |
| | | 10 | FANIHX4010C |
| | | 11.5 | FANIHX4011C |
| | | 13 | FANIHX4013C |
| | | 15 | FANIHX4015C |


## Regular Ø4.5

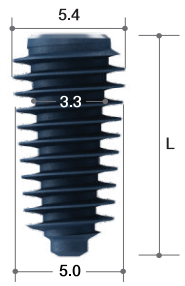
- Cover Screw included.
- Availability of 7mm product is subject to local approval.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 4.5 | 3.3 | 7 | FANIHX4507C |
| | | 8.5 | FANIHX4508C |
| | | 10 | FANIHX4510C |
| | | 11.5 | FANIHX4511C |
| | | 13 | FANIHX4513C |
| | | 15 | FANIHX4515C |
| | 3.8 | 7 | AR384507C |
| | | 8.5 | AR384508C |
| | | 10 | AR384510C |
| | | 11.5 | AR384511C |
| | | 13 | AR384513C |
| | | 15 | AR384515C |

# Fixture Size (Continued)

## Wide Ø5.0

- Cover Screw included.

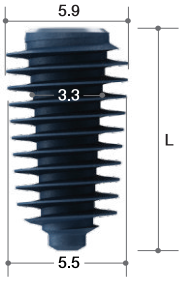



| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 5.0 | 3.3 | 7 | FANIHX5007C |
| | | 8.5 | FANIHX5008C |
| | | 10 | FANIHX5010C |
| | | 11.5 | FANIHX5011C |
| | | 13 | FANIHX5013C |
| | | 15 | FANIHX5015C |
| | 3.8 | 7 | AR385007C |
| | | 8.5 | AR385008C |
| | | 10 | AR385010C |
| | | 11.5 | AR385011C |
| | | 13 | AR385013C |
| | | 15 | AR385015C |

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 5.0 | 4.0 | 7 | FANIHX5007SC |
| | | 8.5 | FANIHX5008SC |
| | | 10 | FANIHX5010SC |
| | | 11.5 | FANIHX5011SC |
| | | 13 | FANIHX5013SC |
| | | 15 | FANIHX5015SC |
| | 4.3 | 7 | AR435007C |
| | | 8.5 | AR435008C |
| | | 10 | AR435010C |
| | | 11.5 | AR435011C |
| | | 13 | AR435013C |
| | | 15 | AR435015C |

## Wide Ø5.5

- Cover Screw included.




| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 5.5 | 3.3 | 7 | FANIHX5507C |
| | | 8.5 | FANIHX5508C |
| | | 10 | FANIHX5510C |
| | | 11.5 | FANIHX5511C |
| | | 13 | FANIHX5513C |
| | | 15 | FANIHX5515C |
| | 3.8 | 7 | AR385507C |
| | | 8.5 | AR385508C |
| | | 10 | AR385510C |
| | | 11.5 | AR385511C |
| | | 13 | AR385513C |
| | | 15 | AR385515C |
| | 4.0 | 7 | FANIHX5507SC |
| | | 8.5 | FANIHX5508SC |
| | | 10 | FANIHX5510SC |
| | | 11.5 | FANIHX5511SC |
| | | 13 | FANIHX5513SC |
| | | 15 | FANIHX5515SC |

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 5.5 | 4.3 | 7 | AR435507C |
| | | 8.5 | AR435508C |
| | | 10 | AR435510C |
| | | 11.5 | AR435511C |
| | | 13 | AR435513C |
| | | 15 | AR435515C |
| | 4.8 | 7 | AR485507C |
| | | 8.5 | AR485508C |
| | | 10 | AR485510C |
| | | 11.5 | AR485511C |
| | | 13 | AR485513C |
| | | 15 | AR485515C |

## Super Wide Ø6.0

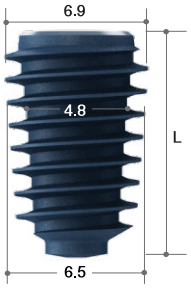
- Cover Screw included.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 6.0 | 4.0 | 7 | AR406007C |
| | | 8.5 | AR406008C |
| | | 10 | AR406010C |
| | | 11.5 | AR406011C |
| | | 13 | AR406013C |
| | 4.3 | 7 | AR436007C |
| | | 8.5 | AR436008C |
| | | 10 | AR436010C |
| | | 11.5 | AR436011C |
| | | 13 | AR436013C |
| | 4.8 | 7 | FALIHX6007C |
| | | 8.5 | FALIHX6008C |
| | | 10 | FALIHX6010C |
| | | 11.5 | FALIHX6011C |
| | | 13 | FALIHX6013C |


## Super Wide Ø6.5

- Cover Screw included.

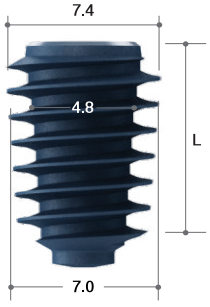
| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 6.5 | 4.8 | 7 | FALIHX6507C |
| | | 8.5 | FALIHX6508C |
| | | 10 | FALIHX6510C |
| | | 11.5 | FALIHX6511C |
| | | 13 | FALIHX6513C |




## Super Wide Ø7.0

- Cover Screw included.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 7.0 | 4.8 | 7 | FALIHX7007C |
| | | 8.5 | FALIHX7008C |
| | | 10 | FALIHX7010C |
| | | 11.5 | FALIHX7011C |
| | | 13 | FALIHX7013C |



# ➲ Fixture Size

## Super Wide Ø7.5

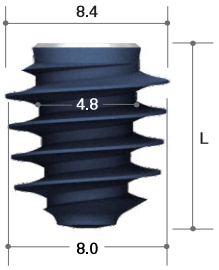
- Cover Screw included.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 7.5 | 4.8 | 7 | FALIHX7507C |
| | | 8.5 | FALIHX7508C |
| | | 10 | FALIHX7510C |
| | | 11.5 | FALIHX7511C |
| | | 13 | FALIHX7513C |


## Super Wide Ø8.0

- Cover Screw included.

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| 8.0 | 4.8 | 7 | FALIHX8007C |
| | | 8.5 | FALIHX8008C |
| | | 10 | FALIHX8010C |
| | | 11.5 | FALIHX8011C |
| | | 13 | FALIHX8013C |

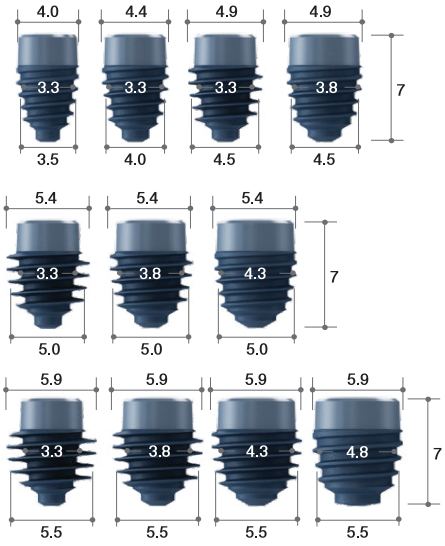



NEW PRODUCT

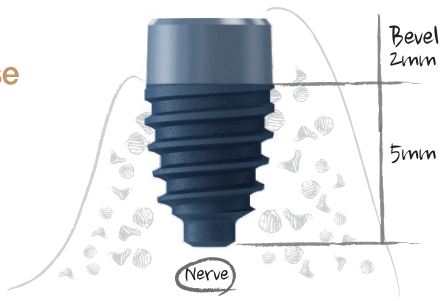
## Special Length

- Cover Screw(cs) included

| Fixture Diameter (mm) | Core (mm) | Length (mm) | Ref.C |
|---|---|---|---|
| Ø3.5 | 3.3 | 7 | AR333505C |
| Ø4.0 | 3.3 | | AR334005C |
| Ø4.5 | 3.3 | | AR334505C |
| | 3.8 | | AR384505C |
| Ø5.0 | 3.3 | | AR335005C |
| | 3.8 | | AR385005C |
| | 4.3 | | AR435005C |
| Ø5.5 | 3.3 | | AR335505C |
| | 3.8 | | AR385505C |
| | 4.3 | | AR435505C |
| | 4.8 | | AR485505C |




"Special 7mm"
essential for special case




### For Irregular Ridge

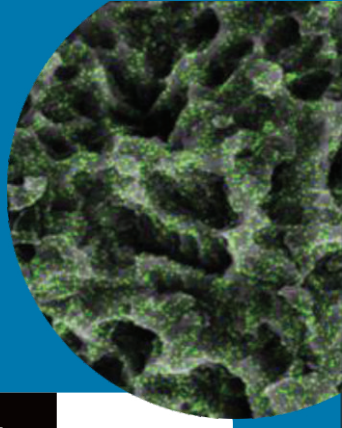
This 'Special 7mm' fixture can be used for non-uniform bone loss case with limited available vertical dimension.

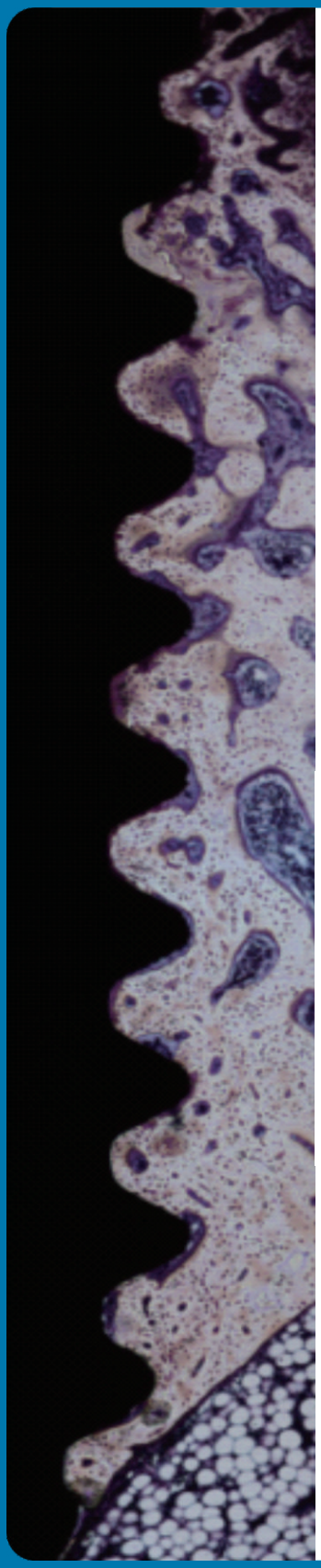
Ø3.5, Ø4.0, Ø4.5, Ø5.0, Ø5.5


7mm Implant

# SLA surface with $Ca^{2+}$ incorperated

MegaGen has developed surface treatment based on SLA technique with nano layer of $Ca^{2+}$ incorperated. Ion creates a $CaTiO_3$ nanostructure on the surface, and activates osteoblasts in the live bone.
The name of this unique specialized surface treatment is XPEED.

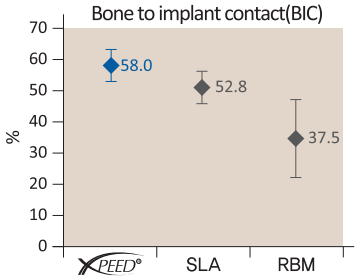


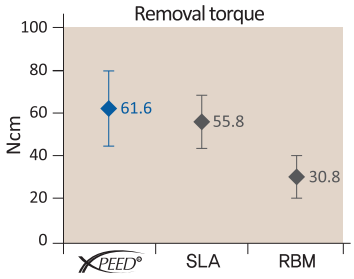


## XPEED® Fast & Strong Osseointegration

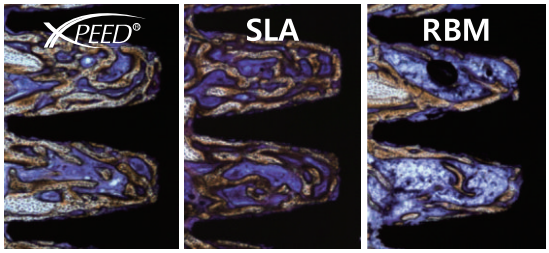
### Bigger BIC resuting bigger removal torque after osseointegration

XPEED® demonstrates bigger BIC and requires bigger removal torque than the RBM or conventional SLA surface treatments.



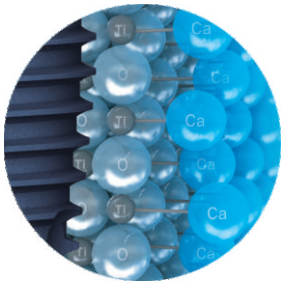

Histological analysis

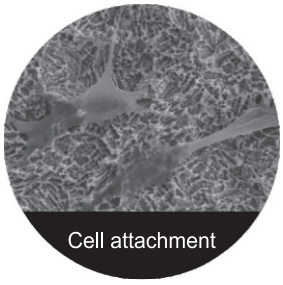



Test result after 4weeks with rabbit

Histological sections of Ti implants with XPEED® SLA, RBM and surface shows the XPEED® makes the highest BIC and makes new bone full between threads. Bone contact was measured over the entire surface of Ti implants.

## XPEED® Blue colored surface as the evidence of purity

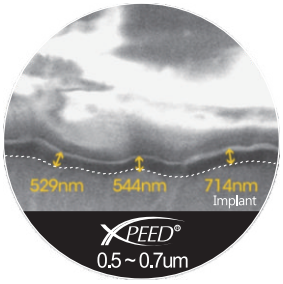


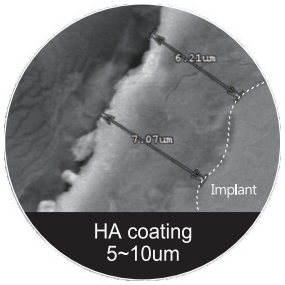




During the factory process of XPEED® treatment, the SLA surface is completely neutralized to remove any acid residue. The blue color of XPEED® surface is the simbol of purity.

## XPEED® Nano-Thickness

XPEED® is different from conventional HA coating technique. Because $ca^{2+}$ ions are incorporated XPEED® will not result peeling or absorption after fixture installation.



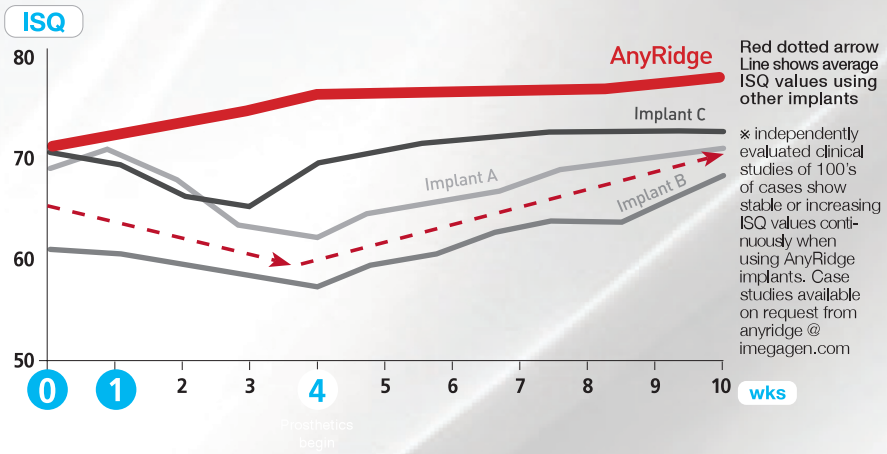




XPEED®
SLA with Nano $Ca^{2+}$ incorperated

# Early Loading Guide with AnyRidge®

## Begin Prosthetic process in only 4 weeks

With Confidence! objective evidence with ISQ values




Red dotted arrow Line shows average ISQ values using other implants

※ independently evaluated clinical studies of 100's of cases show stable or increasing ISQ values continuously when using AnyRidge implants. Case studies available on request from anyridge @ imegagen.com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